

Title (en)

SYSTEM AND METHOD FOR KEY DISTRIBUTION USING QUANTUM CRYPTOGRAPHY

Title (de)

SYSTEM UND VERFAHREN ZUR SCHLÜSSELVERTEILUNG UNTER VERWENDUNG VON QUANTEN-KRYPTOGRAPHIE

Title (fr)

SYSTEME ET PROCEDE DE REPARTITION DE CLES FAISANT APPEL A LA CRYPTOGRAPHIE QUANTIQUE

Publication

**EP 0717896 A1 19960626 (EN)**

Application

**EP 94925578 A 19940908**

Priority

- EP 94925578 A 19940908
- EP 93307120 A 19930909
- EP 93307121 A 19930909
- GB 9401953 W 19940908
- GB 9302075 W 19931006
- GB 9302637 W 19931223

Abstract (en)

[origin: US5768378A] PCT No. PCT/GB94/01952 Sec. 371 Date Mar. 7, 1996 Sec. 102(e) Date Mar. 7, 1996 PCT Filed Sep. 8, 1994 PCT Pub. No. WO95/07582 PCT Pub. Date Mar. 16, 1995 In a method of quantum cryptography, a transmitter (T) communicates on a quantum channel with several receivers (R1-R3). The receivers are located on different branches of a common communications network. The method establishes a different respective secret key for each receiver. A timing pulse may be transmitted from the transmitter to the receivers to synchronise the receivers prior to a transmission on a quantum channel. The quantum channel may be multiplexed and transmitted concurrently with classical multi-photon transmissions on the network.

IPC 1-7

**H04L 9/08**

IPC 8 full level

**G02F 1/1347** (2006.01); **G02F 3/00** (2006.01); **G09C 1/00** (2006.01); **G09C 5/00** (2006.01); **H04B 10/00** (2013.01); **H04B 10/07** (2013.01); **H04B 10/2507** (2013.01); **H04B 10/272** (2013.01); **H04B 10/275** (2013.01); **H04B 10/278** (2013.01); **H04B 10/524** (2013.01); **H04B 10/532** (2013.01); **H04B 10/556** (2013.01); **H04B 10/572** (2013.01); **H04B 10/70** (2013.01); **H04L 9/08** (2006.01); **H04L 9/38** (2006.01); **G02F 1/139** (2006.01); **G02F 1/141** (2006.01)

CPC (source: EP KR US)

**G02F 1/13471** (2013.01 - EP US); **H04L 9/08** (2013.01 - KR); **H04L 9/0852** (2013.01 - EP US); **H04L 9/0858** (2013.01 - EP US); **G02F 1/141** (2013.01 - EP US); **G02F 1/1418** (2013.01 - EP US); **G02F 2203/07** (2013.01 - EP US)

Citation (search report)

See references of WO 9507583A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

**US 5768378 A 19980616**; DE 69414864 D1 19990107; DE 69414864 T2 19990512; EP 0717895 A1 19960626; EP 0717895 B1 19981125; EP 0717896 A1 19960626; EP 0717896 B1 19990107; ES 2126143 T3 19990316; JP 3645261 B2 20050511; JP H09502320 A 19970304; KR 960705433 A 19961009

DOCDB simple family (application)

**US 60504896 A 19960307**; DE 69414864 T 19940908; EP 94925577 A 19940908; EP 94925578 A 19940908; ES 94925577 T 19940908; JP 50854195 A 19940908; KR 19960701243 A 19960309